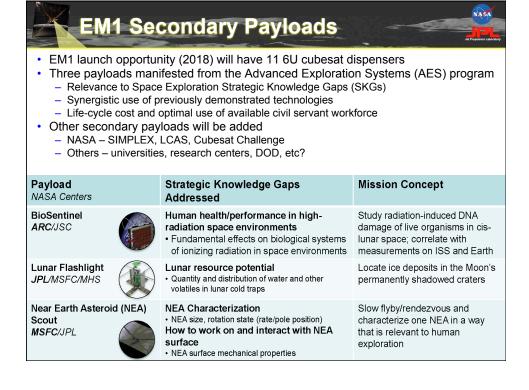
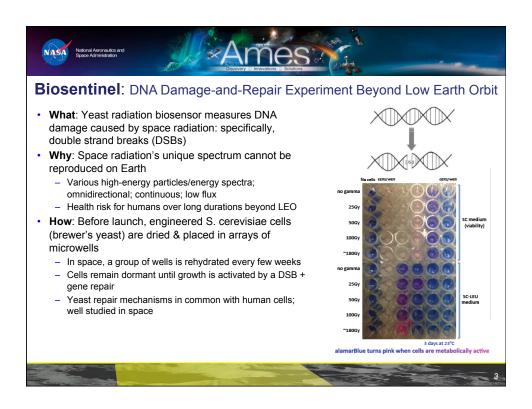


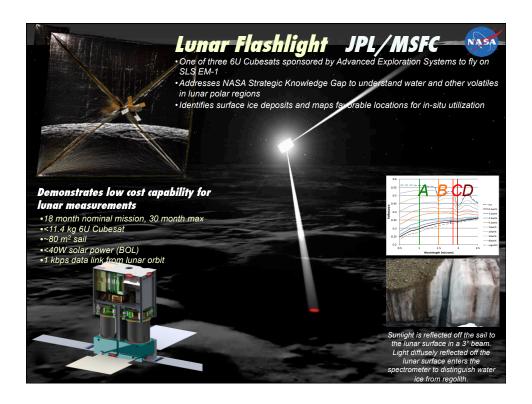
Barbara Cohen

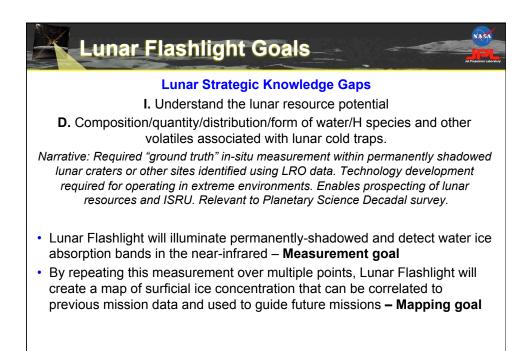
Lunar Flashlight PI, NASA Marshall Space Flight Center Paul Hayne, Ben Greenhagen, David Paige, LF Science Team Julie Castillo, Paul Abell, Lance Benner, Bill Farrell, Jake Bleacher, Paul Chodas, Lee Graham, NEAS Science Team

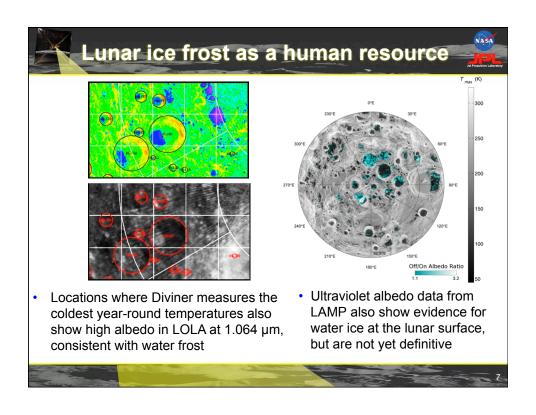


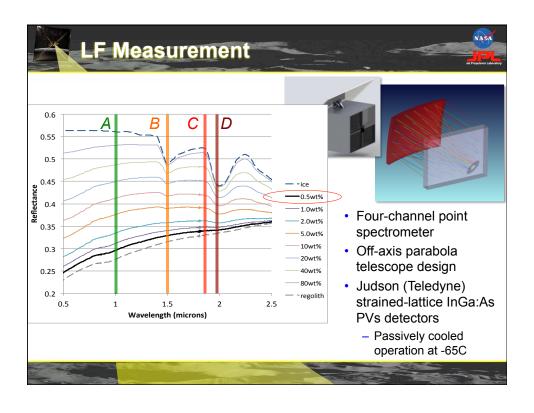


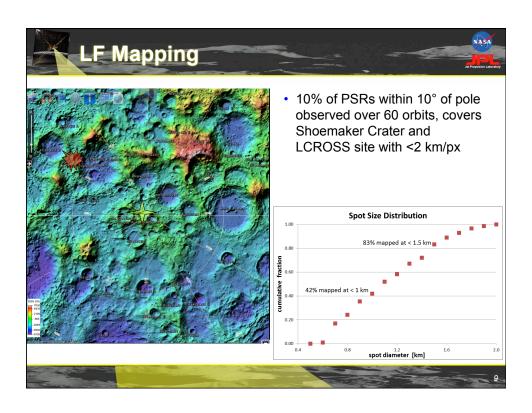














Baseline Target: 1991 VG

- H=28.4±0.7 D~ 5-12 meters Albedo = unknown
- Position is known within 2700 km (1σ) but optical observation opportunity in July '17 will decrease uncertainty to a few 100s km
- Rotation period between a few minutes and less than 1 hr
- · Unlikely to have a companion
- · Unlikely to retain an exosphere or dust cloud
 - Solar radiation pressure sweeps dust on timescales of hours or day

Secondary Targets	Absolute magnitude	30% albedo Diameter (m)	5% albedo Diameter (m)	Orbit Condition Code	Observation Opportunity prior to launch
2001 GP ₂	26.9	10	25	6	Depends on launch date 2020-10 (Optical)
2013 BS45	25.9	11	51	0	2015-01 (Optical)
2008 EA ₉	27.7	7	17	5	none
2012 UV ₁₃₆	25.5	19	47	1	2014-08 (Optical) 2020-05 (RADAR)

